

Hanna Pawlowska

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

2,121
citations

331670

21
h-index

276875

41
g-index

57
all docs

57
docs citations

57
times ranked

1840
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiative Properties of Boundary Layer Clouds: Droplet Effective Radius versus Number Concentration. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 803-821.	1.7	328
2	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13061-13143.	4.9	278
3	Confronting the Challenge of Modeling Cloud and Precipitation Microphysics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001689.	3.8	154
4	An observational study of drizzle formation in stratocumulus clouds for general circulation model (GCM) parameterizations. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	129
5	Observations of the width of cloud droplet spectra in stratocumulus. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	108
6	Cloud microphysical and radiative properties for parameterization and satellite monitoring of the indirect effect of aerosol on climate. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	100
7	Modeling of Cloud Microphysics: Can We Do Better?. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 655-672.	3.3	98
8	An overview of the ACE-2 CLOUDYCOLUMN closure experiment. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 815-827.	1.6	83
9	CCN measurements during ACE-2 and their relationship to cloud microphysical properties. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 843-867.	1.6	82
10	Microphysical properties of stratocumulus clouds during ACE-2. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 868-887.	1.6	79
11	Microphysical properties of stratocumulus clouds. <i>Atmospheric Research</i> , 2000, 55, 15-33.	4.1	72
12	Droplet Activation and Mixing in Large-Eddy Simulation of a Shallow Cumulus Field. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 444-462.	1.7	50
13	Broadening of Cloud Droplet Spectra through Eddy Hopping: Turbulent Entraining Parcel Simulations. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 3365-3379.	1.7	49
14	Evaluating aerosol/cloud/radiation process parameterizations with single-column models and Second Aerosol Characterization Experiment (ACE-2) cloudy column observations. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	47
15	Retrieval of microphysical, geometrical, and radiative properties of marine stratocumulus from remote sensing. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	38
16	Effective radius and droplet spectral width from in-situ aircraft observations in trade-wind cumuli during RICO. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	38
17	Homogeneity of the Subgrid-Scale Turbulent Mixing in Large-Eddy Simulation of Shallow Convection. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 2751-2767.	1.7	35
18	Lagrangian condensation microphysics with Twomey CCN activation. <i>Geoscientific Model Development</i> , 2018, 11, 103-120.	3.6	35

#	ARTICLE	IF	CITATIONS
19	libcloudph++ 1.0: a single-moment bulk, double-moment bulk, and particle-based warm-rain microphysics library in C++. <i>Geoscientific Model Development</i> , 2015, 8, 1677-1707.	3.6	33
20	Stochastic coalescence in Lagrangian cloud microphysics. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13509-13520.	4.9	30
21	Modeling of Subgrid-Scale Mixing in Large-Eddy Simulation of Shallow Convection. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 2125-2133.	1.7	25
22	University of Warsaw Lagrangian Cloud Model (UWLCM) 1.0: a modern large-eddy simulation tool for warm cloud modeling with Lagrangian microphysics. <i>Geoscientific Model Development</i> , 2019, 12, 2587-2606.	3.6	25
23	Optimal Nonlinear Estimation for Cloud Particle Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 1997, 14, 88-104.	1.3	21
24	Optical Properties of Shallow Convective Clouds Diagnosed from a Bulk-Microphysics Large-Eddy Simulation. <i>Journal of Climate</i> , 2008, 21, 1639-1647.	3.2	21
25	libmpdata++ 1.0: a library of parallel MPDATA solvers for systems of generalised transport equations. <i>Geoscientific Model Development</i> , 2015, 8, 1005-1032.	3.6	21
26	Examination of the aerosol indirect effect under contrasting environments during the ACE-2 experiment. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 535-548.	4.9	20
27	libcloudph++ 2.0: aqueous-phase chemistry extension of the particle-based cloud microphysics scheme. <i>Geoscientific Model Development</i> , 2018, 11, 3623-3645.	3.6	16
28	Entrainment and Mixing in Clouds: The Paluch Mixing Diagram Revisited. <i>Journal of Applied Meteorology and Climatology</i> , 1993, 32, 1767-1773.	1.7	13
29	Microphysical and radiative properties of stratocumulus clouds: the EUCREX mission 206 case study. <i>Atmospheric Research</i> , 2000, 55, 85-102.	4.1	12
30	Adaptive method of lines for multi-component aerosol condensational growth and CCN activation. <i>Geoscientific Model Development</i> , 2011, 4, 15-31.	3.6	12
31	MPDATA: Third-order accuracy for variable flows. <i>Journal of Computational Physics</i> , 2018, 359, 361-379.	3.8	11
32	On Estimating the Entrainment Level in Cumulus Clouds. <i>Journals of the Atmospheric Sciences</i> , 1989, 46, 2463-2465.	1.7	7
33	Cloud cover analysis with METEOSAT-5 during INDOEX. <i>Journal of Geophysical Research</i> , 2001, 106, 28415-28426.	3.3	7
34	Impact of Giant Sea Salt Aerosol Particles on Precipitation in Marine Cumuli and Stratocumuli: Lagrangian Cloud Model Simulations. <i>Journals of the Atmospheric Sciences</i> , 2021, 78, 4127-4142.	1.7	7
35	Dynamics of Nonactive Parts of Convective Clouds. <i>Journals of the Atmospheric Sciences</i> , 1995, 52, 519-532.	1.7	6
36	Retrieval of large-scale wind divergences from infrared Meteosat-5 brightness temperatures over the Indian Ocean. <i>Journal of Geophysical Research</i> , 2001, 106, 28113-28128.	3.3	6

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37	Observations and kinematic modeling of drizzling marine stratocumulus. Atmospheric Research, 2011, 102, 120-135.	4.1	6
38	Macroscopic impacts of cloud and precipitation processes in shallow convection. Acta Geophysica, 2011, 59, 1184-1204.	2.0	5
39	Modeling microphysical effects of entrainment in clouds observed during EUCAARI-IMPACT field campaign. Atmospheric Chemistry and Physics, 2013, 13, 8489-8503.	4.9	4
40	Microphysical and radiative properties of stratocumulus. Physics and Chemistry of the Earth, 1999, 24, 927-932.	0.3	2
41	Modeling of subgrid-scale cloud-clear air turbulent mixing in Large Eddy Simulation of cloud fields. Journal of Physics: Conference Series, 2011, 318, 072010.	0.4	2
42	On the role of precipitation in maintenance of downdrafts in cumulonimbus clouds. Atmospheric Research, 1989, 24, 333-342.	4.1	0